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AMSAT NEWS SERVICE
ANS-192

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

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ANS-192 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 192.01
 >From AMSAT HQ KENSINGTON, MD.
DATE July 10, 2016
To All RADIO AMATEURS
BID: $ANS-192.01

AMSAT Field Day Submissions Due July 11

If you participated in Field Day and you plan on submitting your group's score, you have until 23:59 PM on Monday, July 11th to get those submission sheets in to AMSAT. AMSAT's deadline is sooner than the ARRL deadline for Field Day. Bruce Paige, KK5DO, will then prepare the story and send it off to the editor of the AMSAT Journal who will have it in the upcoming issue that goes to press shortly thereafter.

Please send your score sheet and photos to Bruce

kk5do(a)arrl.net
or
kk5do(a)amsat.org

You will receive an email back that day or the next day when Bruce has received your submission. If you do not receive the email, he did not get it. Don't assume that because you sent it,it was received. Make sure

you get the confirmation email.

[ANS thanks Bruce Paige, KK5DO, AMSAT Director Contests and Awards
for the above information]

AMSAT Awards Update

Congrats to all who have earned an AMSAT Award since the last posting.

AMSAT Satellite Communicators Award for making their first satellite QSO
Vinícius Leite, PU4VLT
Marcos Kazan, PU2MXU
Cleber Rodrigues PU3IBD
Pitor Gorecki, SP9RXP
Malcolm Harper, VE2DDZ
Italo Adriano B.C. Marcelino, PU7ASP
Marc-Andre Gingras, VA2EI

AMSAT Century Club Award
Carl Noll, KA4H #46

AMSAT Robert W. Barbee Jr., W4AMI Award
Ramirez-Ferrer, NP4JV #86 1000+

To see all the awards visit
http://www.amsat.org
or
http://www.amsatnet.com/awards.html

[ANS thanks Bruce Paige, KK5DO AMSAT Director Contests and Awards
for the above information]

Two Radio Amateurs Set to Head for the International Space Station

Two Amateur Radio licensees are part of the International Space Station (ISS) crew increment bound for the orbiting outpost this week. NASA astronaut Kate Rubins, KG5FYJ, astronaut Takuya Onishi, KF5LKS, of the Japan Aerospace Exploration Agency (JAXA), and cosmonaut Anatoly Ivanishin of Roscosmos will launch early on July 7 (0136 UTC) from the Baikonur Cosmodrome in Kazakhstan. The trio will spend approximately 4 months on station and will return to Earth in October.

An upgraded Soyuz MS-01 spacecraft will carry Rubins, Onishi, and Ivanishin into space. They will test modified systems for 2 days - 34 Earth orbits - before docking with the ISS on July 9. According to NASA, the modified Soyuz is equipped with upgraded thrusters that are fully redundant, additional micrometeoroid debris shielding, redundant electrical motors for the Soyuz docking probe, and increased power with more photovoltaic cells on the spacecraft's

solar arrays. This week's launch will mark the first of at least two missions in which enhanced Soyuz hardware will be tested and verified.

Once the hatches between the Soyuz and the ISS have been opened, Expedition 48 Commander Jeff Williams, KD5TVQ, of NASA, and Flight Engineers Oleg Skripochka, RN3FU, and Alexey Ovchinin of Roscosmos will greet their new crewmates.

The Expedition 48 crew members will continue experiments in biology, biotechnology, physical science, and Earth science.

Rubins, Onishi, and cosmonaut Ivanishin will replace Expedition 47 Commander Tim Kopra, KE5UDN; Flight Engineer Tim Peake, KG5BVI/GB1SS, and Yuri Malenchenko, RK3DUP, who returned to Earth in mid-June after a little more than 6 months in space.

NASA TV will cover the launch and the arrival online at, http://www.nasa.gov/multimedia/nasatv/index.html#public .

About ARISS

Amateur Radio on the International Space Station (ARISS) is a cooperative venture of international amateur radio societies and the space agencies that support the International Space Station (ISS). In the United States, sponsors are the Radio Amateur Satellite Corporation (AMSAT), the American Radio Relay League (ARRL), and the National Aeronautics and Space Administration (NASA). The primary goal of ARISS is to promote exploration of science, technology, engineering, and mathematics (STEM) topics by organizing scheduled contacts via amateur radio between crew members aboard the ISS and students in classrooms or informal education venues. With the help of experienced amateur radio volunteers, ISS crews speak directly with large audiences in a variety of public forums. Before and during these radio
contacts, students, teachers, parents, and communities learn about space, space technologies, and amateur radio. For more information, go to:

www.ariss.org
www.amsat.org
www.arrl.org

Also, join us on Facebook:
Amateur Radio on the International Space Station (ARISS)

Follow us on Twitter:
ARISS_status

[ANS thanks the ARRL and ARISS for the above information]

Australia CubeSat Testing Begins

Satellites are being tested at the Australian National University Mount Stromlo space facility in Canberra ahead of a mass satellite launch from the International Space Station later this year.

The three CubeSats to be rigorously proven as space-ready have been developed
by researchers at ANU, the University of Sydney, University of Adelaide

and the
University of South Australia.

In one Australian experiment, space weather and solar activity will be looked
at as they are important to GPS navigation, financial systems and electricity
grids. A second CubeSat will carry new instruments to measure atmospheric
water and carbon dioxide.

The third will carry four separate experiments including a specially designed
receiver and electronics with the ability to self-repair if hit by radiation
and something breaks.

The Australian CubeSats will be launched as part of the European Union's QB50
program of 50 satellites from 27 countries including Brazil, China, Europe,
Russia and the USA.

[ANS thanks WIA News and Jim Linton VK3PC for the above information]

AMSAT Events

Information about AMSAT activities at other important events around
the country. Examples of these events are radio club meetings where
AMSAT Area Coordinators give presentations, demonstrations of working
amateur satellites, and hamfests with an AMSAT presence (a table with
AMSAT literature and merchandise, sometimes also with presentations,
forums, and/or demonstrations).

*Saturday, 6 August 2016 – Austin Summerfest in Austin TX

*Saturday, 13 August 2016 – KL7KC Hamfest in Fairbanks AK

*Saturday, 20 August 2016 – Spark in the Park in Wyoming MI

*Saturday, 3 September 2016 - Shelby Hamfest in Shelby, NC (ARRL North
Carolina State Convention) - AMSAT Forum Only

*Saturday and Sunday, 10-11 September 2016 Boxboro Hamfest in Boxborough,
MA (ARRL New England Division Convention)

*Friday, 23 September 2016 – presentation at Jet Propulsion Laboratory
Amateur Radio Club in Pasadena CA

*Friday and Saturday, 21-22 October 2016 – CopaFest 2016, south of
Maricopa AZ

*Saturday, 12 November 2016 – Oro Valley Amateur Radio Club Hamfest in
Marana AZ

*Saturday, 3 December 2016 – Superstition Superfest in Mesa AZ

*Saturday, 14 January 2017 – Thunderbird Hamfest 2017 in Phoenix AZ

*Saturday, 4 February 2017 – Palm Springs Hamfest in Palm Springs CA

*Friday-Sunday, 10-12 February 2017 Orlando HamCation in Orlando, FL

*Friday and Saturday, 17-18 February 2017 – Yuma Hamfest in Yuma AZ

[ANS thanks AMSAT-NA for the above information]

ARISS News

Sucessful Contacts

* Science Museum of Virginia, Richmond, Virginia, telebridge via VK5ZAI
The ISS callsign was scheduled to be NA1SS
The scheduled astronaut was Jeff Williams KD5TVQ
Contact was successful: Wed 2016-07-06 14:28:20 UTC 77 degx
A successful telebridge contact this morning. All 20 questions were answered, with time to spare for a round of thanks from the audience and a farewell from Jeff.

* A direct contact via DN1JKG with students at Justus-Knecht-Gymnasium, Bruchsal, Germany was successful Fri 2016-07-01.

The Justus-Knecht-Gymnasium is one of the biggest schools of general education in the administrative district of Karlsruhe in Baden-Wurttemberg. More than 1,300 students are taught by over one hundred teachers.

Our focus is on a scientific profile with the succession of languages being English-French or English-Latin. Furthermore, science and technology is a major subject starting in year 8. About 85% of our students opt for this profile.
For four years now the Justus-Knecht-Gymnasium has been one of 44 model schools in Baden-Wurttemberg which allow students to take their A-levels at different speeds - either after eight or nine years of secondary education.

The Justus-Knecht-Gymnasium is also participating in three different educational pilot projects. In the last two years leading up to their A-levels, students may take up Mathematics "plus" (an enhanced version of the subject Mathematics, six lessons a week) or computer science as a major subject as well as science and technology as a minor subject.

Additionally, there are optional subjects for senior students, such as for example psychology, philosophy, drama, and especially natural sciences like geology, computer algebra, computer science, and astronomy. The Justus-Knecht-Gymnasium cooperates with partners in various fields, especially
the Karlsruhe Institute of Technology (KIT). In 2015 the town of Bruchsal organized the "Heimattage Baden-Württemberg" (Homeland Days of Baden-Württemberg).

The Justus Knecht-Gymnasium took part in different projects, e.g. "Heimat Erde" (Homeland Earth). Students of different years worked on the topic. Moreover there's a study team working together with the amateur radio operators of Bruchsal. They established radio communication, built a stratosphere balloon and prepared the radio link to the ISS.

see:
http://www.jkg.ka.schule-bw.de/
(Note: above link is in German)

BadenTV video link (Also in German)
http://www.baden-tv.com/mediathek/video/iss-funkkontakt-date-mit-einem-raumfahrer/

* A direct contact vie RZ9WWB with The All-Russian Public Organization Radio And Radiolûbitel 'Stva" The Russian Amateur Radio Union", in Ufa, Russia, was successful Thu 2016-06-30.

Upcoming Contacts

* ISS R&D Conference, San Diego, CA, telebridge via W6SRJ
The ISS callsign is presently scheduled to be NA1SS
The scheduled astronaut is Jeff Williams KD5TVQ
Contact is go for: Thu 2016-07-14 16:03:33 UTC 37 deg

Descriptions of the schools participating in the contact are shown below.

Lake Elementary School, Oceanside, CA
Lake Elementary School opened in 1989 in southeastern Oceanside. A top priority continues to be the use of technology by students and staff to prepare children for 21st Century College and Career readiness.

Community Montessori Charter School, Escondido , CA
CMCS currently serves approximately 375 students in grades K-8. Students attend one of five resource centers located throughout San Diego county, and are on a Montessori home study program.

Vista Magnet Middle School, Vista, CA
Students will be literate, reflective and critical thinkers in all areas of interaction who transfer knowledge and embrace diversity within a global society.

Monte Vista Elementary School, Vista, CA
Our vision at Monte Vista Elementary is to ignite a love of learning and a sense of curiosity in all students. We will promote academic achievement through high expectations and develop problem solvers who are technologically proficient.

Lilac School, Valley Center, CA
The Lilac Learning Community shares a commitment to exploring, developing and differentiating deliberate, effective strategies and practices for learning in a dynamic environment of collaboration, inquiry and diversity.

STAR Prep Academy, Los Angeles, CA
The STAR PREP ACADEMY is an extraordinary private middle & high school for students who seek an individualized approach to learning, based on their desired areas of specialization.

Westminster Christian School, Miami, FL
Founded in 1961, Westminster is an independent, college-preparatory, coeducational Christian school serving 1,241 students from preschool through 12th grade.

* Frontiers of Flight Museum's “Moon Day 2016”, Dallas TX, telebridge via W6SRJ
The ISS callsign is presently scheduled to be NA1SS
The scheduled astronaut is Jeff Williams KD5TVQ
Contact is go for : Sat 2016-07-16 15:54:09 UTC 88 deg

* Ufa, Russia, direct via TBD
The ISS callsign is presently scheduled to be RSØISS
The scheduled astronaut is Oleg Skripochka RN3FU
Contact is a go for Thu 2016-07-23 18:50 UTC

Watch
http://www.ariss.org/upcoming-contacts.html
for information about upcoming contacts as they are scheduled.

[ANS thanks ARISS, Dave, AA4KN, and Charlie, AJ9N for the above information]

Satellite Shorts From All Over

Upcoming High Altitude Balloon Flights Include Amateur Radio

The Amateur Radio High Altitude Ballooning e-mail list
(BALLOON_SKED(a)yahoogroups.com) reports that two upcoming flights will
include amateur radio payloads beyond the usual APRS downlinks used for
tracking.

2016-07-23 @ 09:00 MST

Arizona Near Space Research to launch: ANSR-101 from the
Williams Ham Fest, Williams, Arizona (35.2587, -112.185 Grid: DM35VG)

Website:
http://www.ansr.org, http://groups.yahoo.com/group/Ballooning/
Tracking via APRS.FI: KA7NSR-6, KA7NSR-7
Telemetry: APRS: 144.340 MHz, Also 445.925, both digipeated to 144.39

2 crossband repeaters:

Uplink #1:   146.560 MHz CTCSS 162.2
Downlink #1: 445.925 MHz

Uplink #2:   147.560 MHz CTCSS 89.1
Downlink #2: 446.025 MHz

Live video streaming on 440 MHz and 2.4 GHz to ground station at Ham Fest.
Contact: Bill McLean
bmclean1(a)gmail.com
QRZ: KA7NSR

2016-08-06 @ 07:45 CDT

Balloon Assisted Stratospheric Experiments (DePauw University) to launch
BASE 90 from Rantoul National Aviation Center Airport-Frank Elliott Field
Rantoul, IL (100 miles south of Chicago; 40.294, -88.142 Grid: EN50WH)
during the Space Jam 10 Boy Scout Jamboree

Website:
http://www.depauw.edu/academics/departments-programs/physics-astronomy/
department-research/base/
Tracking via APRS.FI: WB9SA-11
Telemetry: APRS: 144.390MHz

Contact: Howard Brooks

hlbrooks(a)depauw.edu
QRZ: WB9SA
Crossband repeater and SSTV downlink frequencies will be announced.

[ANS thanks the BALLOON_SKED(a)yahoogroups.com list for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
Joe Spier, K6WAO
k6wao at amsat dot org